

NH Career Clusters

Agriculture, Food and Natural Resources

As populations increase and markets globalize, demand for agricultural products as well as concern for the protection of natural resources will provide ample opportunities. These careers focus on producing, managing, processing, and marketing commodities such as food, fiber, wood products, horticulture, natural resources, and other plant and animal products, as well as technical and educational services.

Some jobs in this cluster: Farm Manager, Veterinarian, Mining Engineer, Aquaculturist, Environmental Engineer, Fish and Game Warden, Groundskeeper, Greenhouse Manager



Floral Designer



Contractor

ARCHITECTURE AND CONSTRUCTION

These workers create, build, and keep intact structures like homes, businesses, roads, bridges, mills, refineries, power plants, and airports, as well as the equipment that things going. They plan, build and maintain the built environment, working on new structures, restorations, additions, alterations and repairs. In New Hampshire, students may begin electrical or plumbing apprenticeships in high school.

Some jobs in this cluster: Architect, Electrician, Heavy Equipment Operator, Carpenter, Plumber, Drafter, Heating and Air Conditioning Installer/Repairer

Arts, A/V Technology, and Communications

Flexibility and innovation are commodities in the creative economy. The arts challenge creative talents, inspire creative thinking and an appreciation for diversity, and provide training for an innovation-driven workforce. Careers in this cluster are involved in audio-visual technology and film, journalism and broadcasting, performing arts, printing technology, telecommunications, and visual arts.

Some jobs in this cluster: Actor, Journalist, Audio Engineer, Telecommunications Technologist, Printing/Graphics Technologist, Art Director, Computer Animator, Logo Designer



Video Producer

Business Management and Administration

This cluster prepares students for careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations, regardless of industry. Pathways in the cluster include Management, Business Financial Management and Accounting, Human Resources, Business Analysis, Marketing, and Administration and Information Support.

Some jobs in this cluster: Administrative Assistant, Treasurer, International Trade Manager, Auditor, Accountant, Management Analyst, Chief Executive, Insurance Broker



Human Resource Administrator

Career Clusters were designed to help students successfully transition from school to careers by connecting education to the world of work. Pathways within each cluster identify the knowledge and skills needed by students to meet the demands of further education and the expectation of employers. Use the clusters to explore a wide range of career choices, and discover how your educational choices relate to your career goals.

Education and Training

Education and training careers provide, support, and manage the education and training of learners, from preschool through adult, in formal and informal settings. There will be many opportunities for those who facilitate learning, in K-12 classrooms, on college campuses, in libraries, in administrative positions, for special needs students, and for workers who need job-specific training.

Some jobs in this cluster: Elementary Teacher, Secondary Teacher, Principal, School Counselor, Special Education Teacher, College Professor, Librarian, Corporate Trainer, Speech-Language Pathologist



Financial Services

Workers in financial services careers make strategic decisions to obtain, save, protect, and grow financial assets of individuals and businesses. Pathways include Accounting, Banking Services, Business Finance, Securities and Investment, and Insurance. These careers require skills in organization, time management, customer service and communication as well as strong computation, analytical, and interpersonal skills.

Some jobs in this cluster: Stock Broker, Banker, Insurance Agent, Loan Officer, Tax Preparer, Securities and Commodities Sales Agent, Personal Financial Advisor, Economist

Government and Public Administration

Virtually every occupation can be found within government, but some activities are unique to government. Government at the Federal, State, and Local levels provide administrative and regulatory services to residents. Pathways include Foreign Service, Governance, National Security, Planning, Public Management and Administration, Regulation, and Revenue and Taxation.

Some jobs in this cluster: Legislator, City Manager, Policy/Budget Analyst, Recreation/Parks Director, Homeland Securities Specialist, Congressional Aide, Diplomat, Urban/Regional Planner



Health Science

Delivery of health care ranges from small private practice physician and dentist offices to busy hospitals with diverse opportunities, from medevac units to cruise ships, from schools to sports arenas. Careers in this cluster promote health, wellness, and diagnosis, and treat injuries and diseases. Some work directly with patients while others conduct research or collect data and information.

Some jobs in this cluster: Pediatrician, Physical Therapist, Radiologic Technologist, Nurse, Medical Assistant, Dental Hygienist, Midwife, Optometrist, Hospital Administrator, Surgical Technologist, Diagnostic Medical Imaging, Dietitian



NH Career Clusters (continued)



Chef

Hospitality and Tourism

Hospitality and tourism is an important industry to New Hampshire. The career opportunities in this field are diverse with varied skill and ability requirements, ranging from executive chef to ticket taker. Careers in this cluster include the management, marketing, and operation of restaurants and other food service establishments, lodging facilities, tourist attractions, recreational venues, travel-related services, and convention bureau/conference planning services.

Some jobs in this cluster: Lodging Manager, Meeting and Convention Planner, Kitchen Manager, Baker, Travel Agent, Tour Guide, Concierge, Museum Technician/Conservator

Human Services

People in human services care for others by tending to the psychological, social, and physical needs of individuals and families. They work to improve quality of life and promote safe, healthy communities. Career pathways for this cluster are Consumer Services, Counseling and Mental Health Services, Early Childhood Development, Family and Community Services, and Personal Care Services.

Some jobs in this cluster: Marriage/Family Counselor, Extension Educator, Real Estate Broker/Appraiser, Consumer Credit Counselor, Clinical Psychologist, Funeral Director, Barber, Spa Director



Cosmetologist



Web Developers

INFORMATION TECHNOLOGY

Information technology is a dynamic and entrepreneurial environment that has had a revolutionary impact on the economy and society. IT careers involve designing, developing, supporting, and managing hardware, software, multimedia, and systems integration. Pathways include Information Support and Services, Network Systems, Programming and Software Development, Web and Digital Communications, and Geographic Information Systems (GIS).

Some jobs in this cluster: Business Analyst, Computer Programmers, Database Administrators, Game Developer, Help Desk Technician, Multi-Media Artists and Animators, Network Administrators, Network Security Analyst, GIS Technician

Law, Public Safety, Corrections, and Security

Careers in this cluster focus on planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services. Students may specialize in corrections services, emergency and fire management, law enforcement, legal services, or security and protective services.

Some jobs in this cluster: Police, Fire and Ambulance Dispatcher, Animal Control Officer, Criminal Investigator, Firefighter, Bailiff, Corrections Officer, Evidence Technician, Federal Marshal, Immigration and Customs Inspector, Private Detective and Investigator



Police Patrol Officer



MANUFACTURING

Despite improvements in production technology and rising imports, there is still demand for workers with manufacturing skills. There are many opportunities for people with a knowledge of machine operation and maintenance, quality control, environmental and safety engineering, logistics and inventory control and material management, computer integrated manufacturing, and teamwork.

Some jobs in this cluster: CNC Machinist, Design Engineer, Die Maker, Drafter, Engineering Technician, Equipment/Machinery Repair, Fixture Maker, Industrial Engineer, Machine Tool Designer, Precision Inspector, Steel Worker/Sheet Metal, Tester/Grader, Tool Maker, Utility Lineman

Welder/Fabricator

Marketing, Sales, and Service

The marketing and sales of goods and services is the engine of economic activity. Careers in this cluster are involved in purchasing, financing, distribution, pricing, risk management, promotion, and selling goods and services. In New Hampshire, students are encouraged to join the Distributive Education Clubs of America (DECA), an international association of business-marketing students.

Some jobs in this cluster: E-commerce Director, Trade Show/Event Manager, Sales Associate, Webmaster, Retail Sales Manager, Marketing Researcher, Account Executive, Fashion Marketing Promotions Manager, Copy Writer, Brand Manager, International Business, Media Buyer



Merchandiser/Buyer

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS



Science, technology, engineering, and mathematics (STEM) careers are exciting, challenging, and ever-changing. These workers conduct scientific research and development, apply engineering concepts to solve problems, and perform laboratory and testing services. Career opportunities range from high school science and math teachers to NASA astronauts. In New Hampshire, Project Lead The Way prepares students for careers in engineering and engineering technology.

Some jobs in this cluster: Geological Engineer, Aerospace Engineer, Biomedical Engineer, Ocean Systems Engineer, Research Assistant, Environmental Scientist, Geneticist, Chemical Engineer, Meteorologist, Lab Technician/Analyst, Pharmaceutical Scientist, Nuclear Engineer, Network Architect

Microbiologist

Transportation, Distribution, and Logistics

Careers in the transportation, distribution, and logistics cluster are involved in the planning, management, and movement of people, materials, and products, by road, air, rail, and water. In New Hampshire, most schools offer the facility and mobile equipment pathway. These careers involve diagnosis, maintenance, repair, servicing, and refueling of automobiles, trucks, aircraft, and other mobile and transportation equipment.

Some jobs in this cluster: Air Traffic Controller, Aircraft Inspector, Airframe and Powerplant (aircraft) Mechanic, Auto Body Technician, Auto Racing Technician, Automotive Engineer, Diesel Mechanic, Race Pit Crew, Service Manager



Automobile Technician